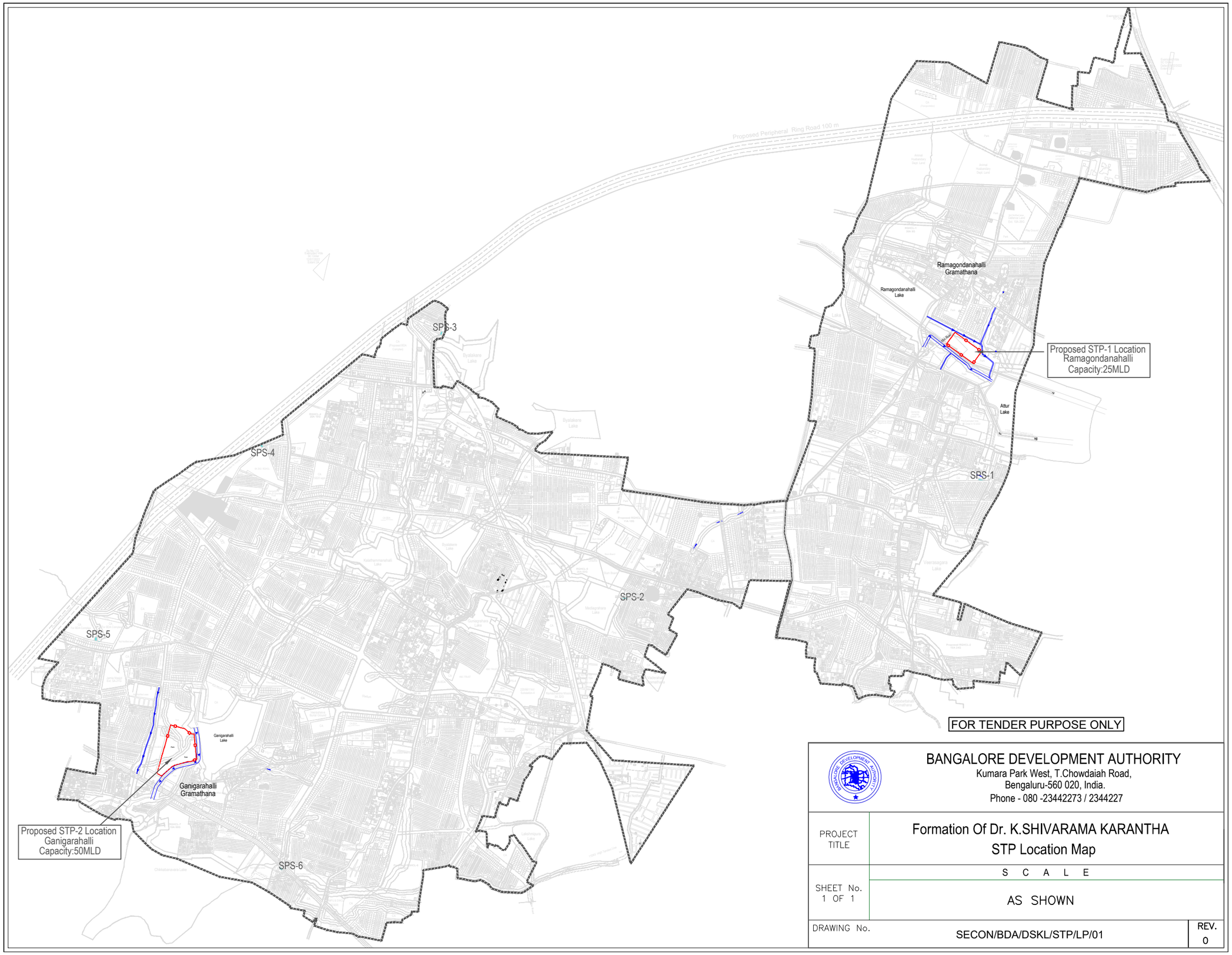
Design, Construction & Commissioning of 75 MLD (25 MLD and 50 MLD) Capacity Sewage Treatment Plant (STP) using Sequential Batch Reactor (SBR) Process Technology with Biological Nutrient, Nitrogen & Phosphorous Removal System including 6 Nos., of RCC Wet Well Cum Pump house and 8 Nos of Machine hole Pumping Stations with All Electro-Mechanical Instrumentation, SCADA and allied Civil Works for Dr. K.Shivarama Karantha Layout, Bengaluru including Five Years of O & M during operation Period

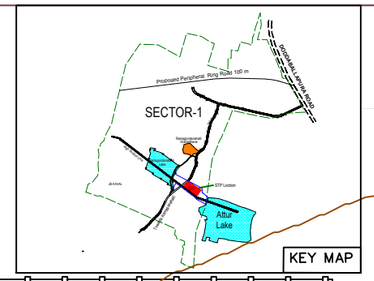
TENDER DRAWINGS



FOR TENDER PURPOSE ONLY

BANGALORE DEVELOPMENT AUTHORITY
Kumara Park West, T.Chowdaiah Road,
Bengaluru-560 020, India.
Phone - 080 -23442273 / 2344227

PROJECT TITLE	Formation Of Dr. K.SHIVARAMA KARANTHA STP Location Map
	S C A L E
SHEET No. 1 OF 1	AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/01
REV.	0



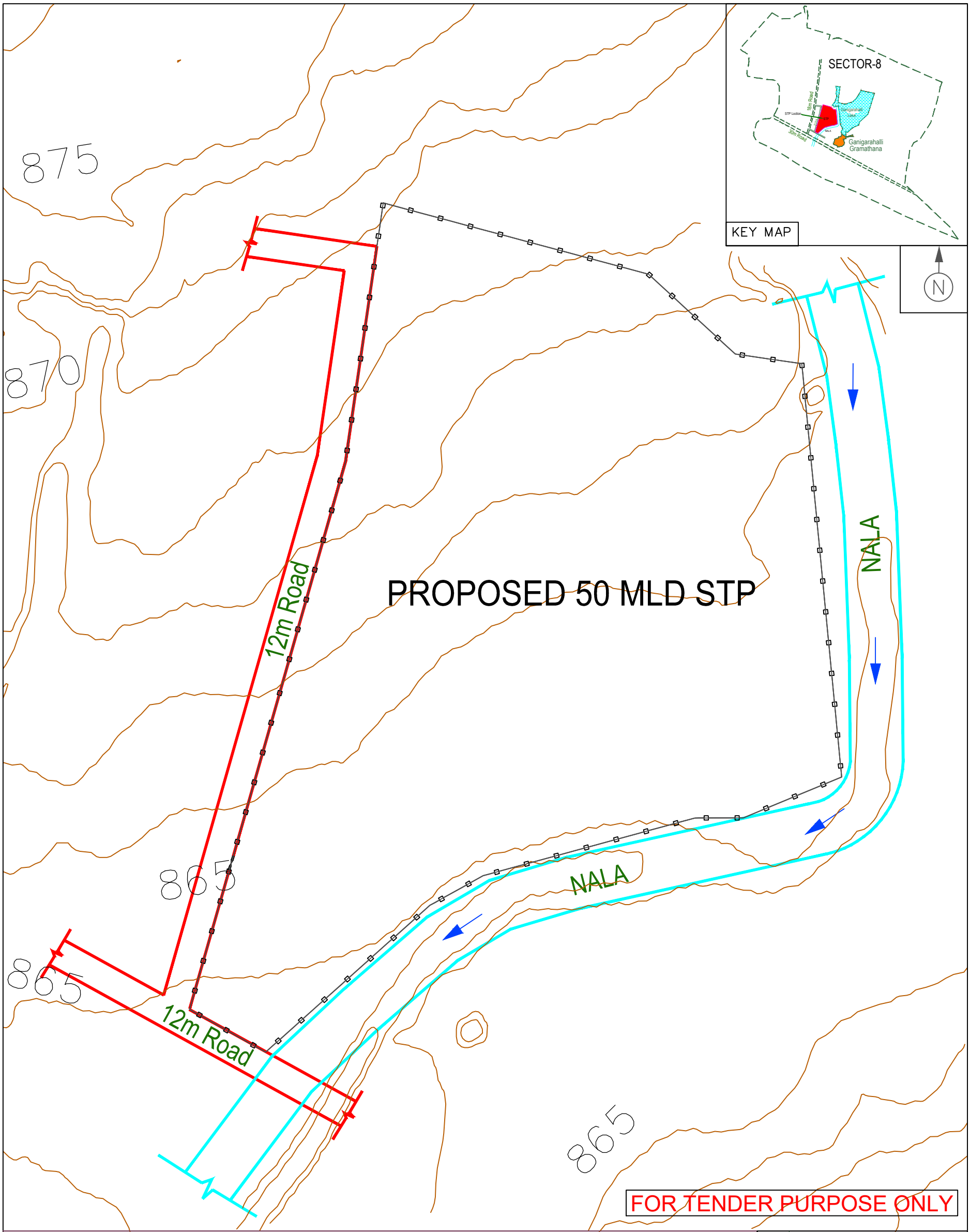
Ramagondanahalli
0.4 km

PROPOSED 18m WIDE ROAD

PROPOSED 25 MLD STP

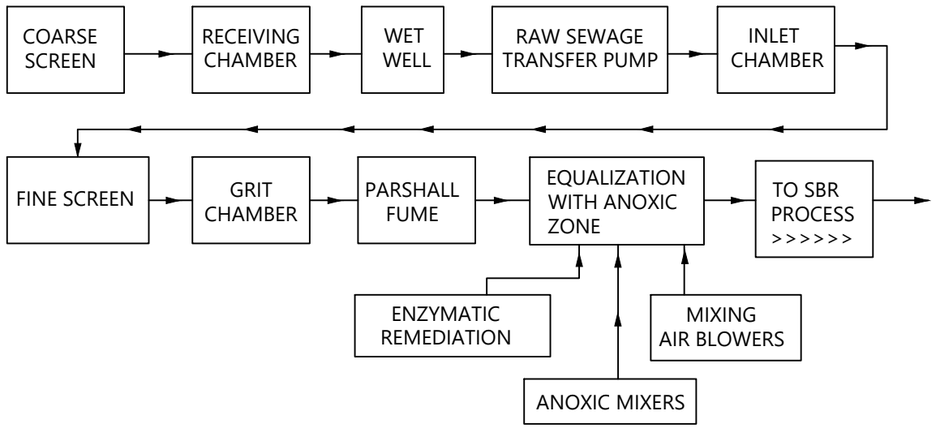
FOR TENDER PURPOSE ONLY

CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT 25 MLD SEWAGE TREATMENT PLANT LAYOUT PLAN TOPOGRAPHICAL SURVEY MAP
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02

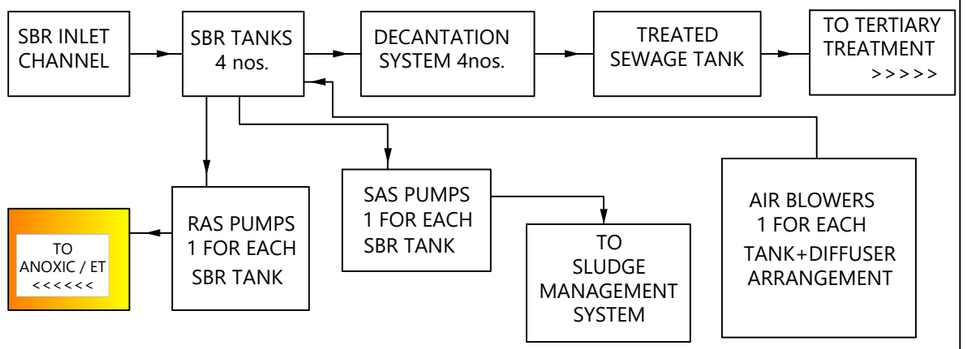


CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT 50 MLD SEWAGE TREATMENT PLANT LAYOUT PLAN TOPOGRAPHICAL SURVEY MAP
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02

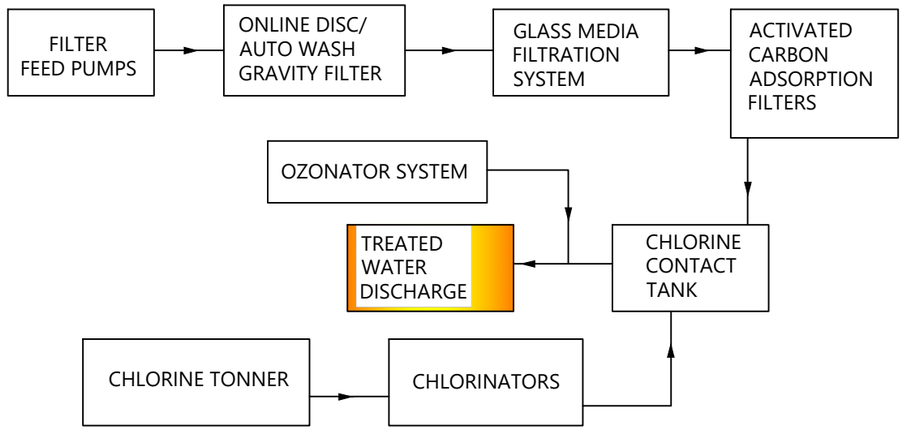
I. PRIMARY TREATMENT



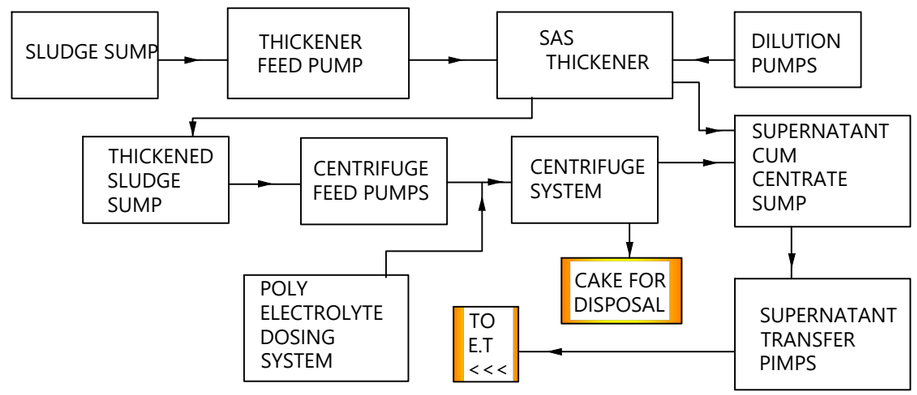
II. SECONDARY TREATMENT


SBR INLET CHANNEL
SBR TANKS 4 nos.
DECANTATION SYSTEM 4nos.
TREATED SEWAGE TANK
TO TERTIARY TREATMENT >>>>>
TO ANOXIC / ET <<<<<<
RAS PUMPS 1 FOR EACH SBR TANK
SAS PUMPS 1 FOR EACH SBR TANK
TO SLUDGE MANAGEMENT SYSTEM
AIR BLOWERS 1 FOR EACH TANK+DIFFUSER ARRANGEMENT

III. TERTIARY TREATMENT

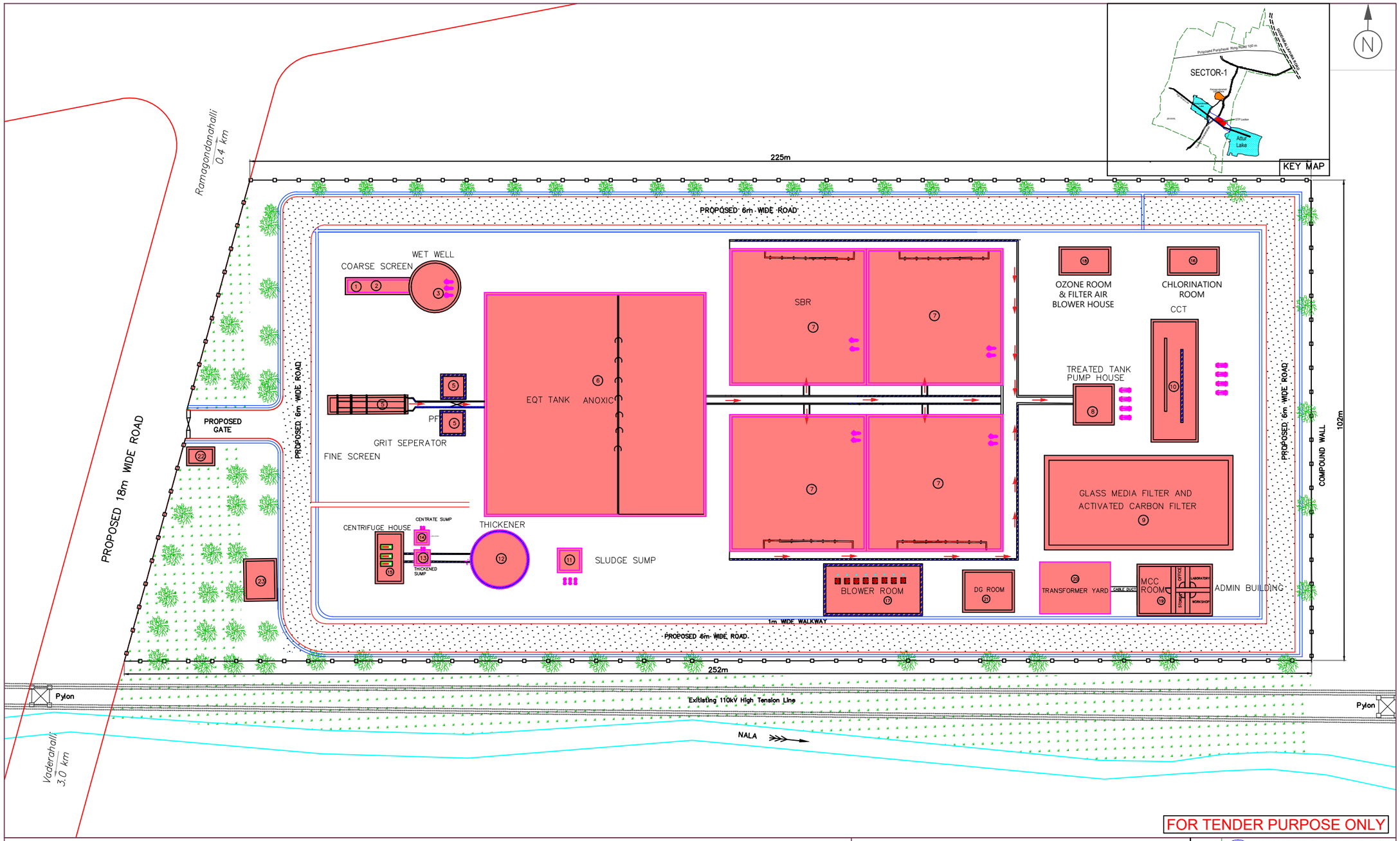


IV. SOLIDS MANAGEMENT



FOR TENDER PURPOSE ONLY

CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT SEWAGE TREATMENT PLANT LAYOUT PLAN PROCESS FLOW DIAGRAM
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02



FOR TENDER PURPOSE ONLY

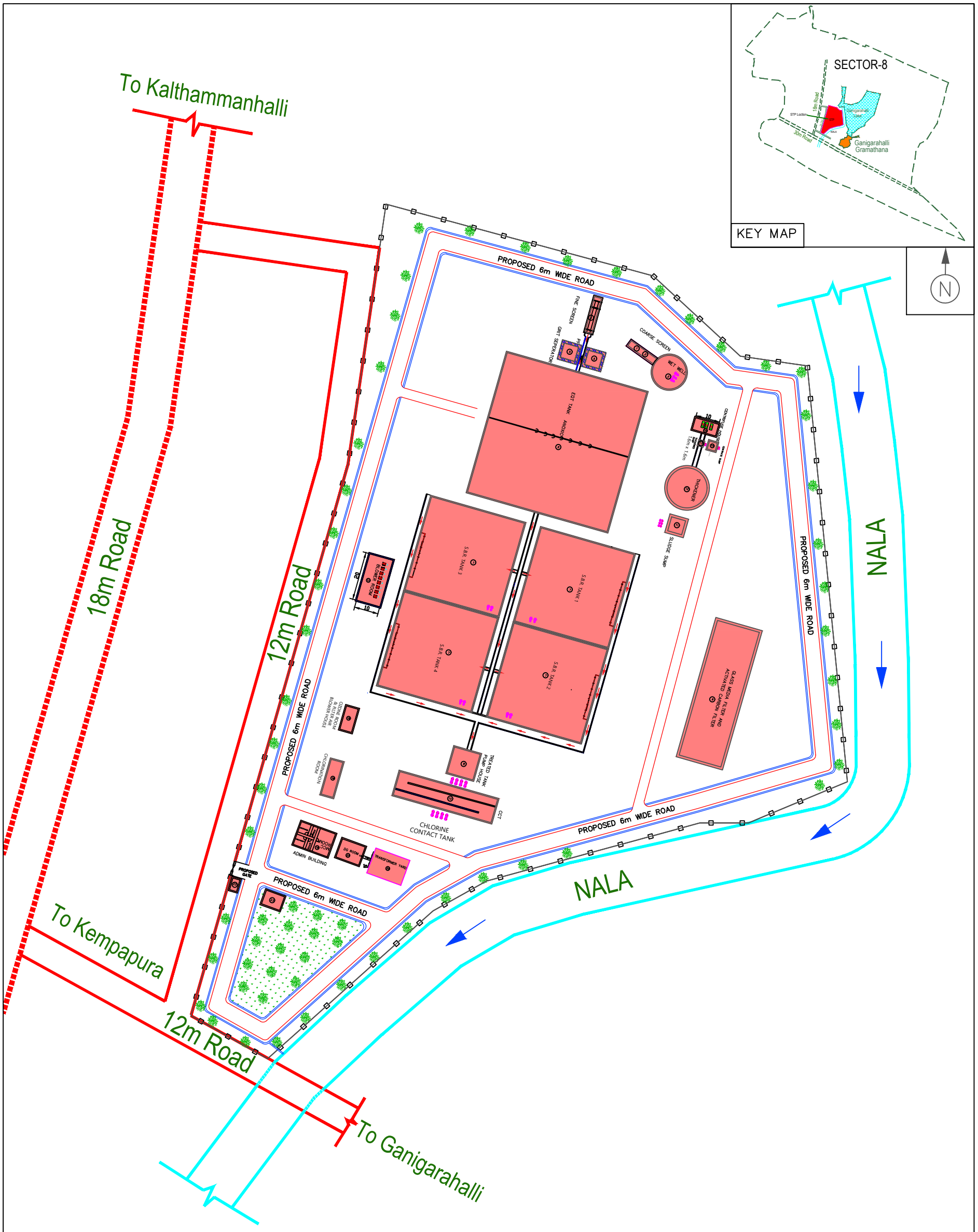
SEWAGE TREATMENT PLANT COMPONENT DETAILS FOR 20 MLD

MARKED	DESCRIPTION	DIMENSIONS (M)	MARKED	DESCRIPTION	DIMENSIONS (M)	MARKED	DESCRIPTION	DIMENSIONS (M)
1	INLET CHAMBER	3.40x3.40x2.90–1No.		RCC CHANNEL	5.25x0.85–1No.	14	CENTRATE SUMP	2.20x2.20x2.5–1No.
2	COARSE SCREEN CHANNEL (MECHANICAL)	13.00x2.60x1.00–1Nos.	5	GRIT CHAMBER	5.50x5.50x0.85LD–2Nos.	15	CENTRIFUGE HOUSE	10.00x5.00X4.00–1No.
	PROPOSED RAW SEWAGE PUMPING STATION			RCC CHANNEL	4.00x0.80–1No.	16	CHLORINATION ROOM	10.00x5.00x5.0–1Nos.
3	WET WELL	10.00ø x8.60–1No.	6	EQT TANK ANOXIC	46.00x46.50x5.00LD–1Nos.	17	AIR BLOWER ROOM,AERATION &MIXING	20.00x10.00x5.0–1No.
	PUMP HOUSE ABOVE WET WELL	10.54øx5.00–1No.	7	SBR TANK	28.00x28.00x6.00LD–4Nos.	18	OZONE ROOM & AIR BLOWER ROOM FILTER	10.00x5.00x5.0–1No.
4	VALVE CHAMBER	10.00x5.00x2.50–1No.	8	TREATED SEWAGE TANK & PUMP HOUSE	7.70x7.70x3.00–1No.	19	ADMINISTRATION BUILDING (GF & FF)	15.00x10.00X4.00–
	PRELIMINARY TREATMENT UNITS		9	GLASS MEDIA FILTER AND ACTIVATED CARBON FILTER	20.00x40.00x–1No.	20	TRANSFORMER YARD	11.00x15.00–1No.
5	INLET CHAMBER	2.20x2.20x2.20–1No.	10	CHLORINE CONTACT TANK	25.00x9.00X3.00–1No.	21	DG ROOM	10.00x8.00–1No.
	SCREEN CHAMBER (MECHANICAL)	4.00x1.00x0.70LD–1No.	11	SLUDGE SUMP	4.20x4.20X3.50LD–1Nos.	22	SECURITY ROOM	5.00x3.00–1No.
	SCREEN CHAMBER (MANUAL)	4.00x1.00x0.70LD–1No.	12	SLUDGE THICKNER	11.50ø x4.00–1No.	23	ENGINEER OFFICE BUILDING	8.00x6.00–1No.
			13	THICKENED SUMP	2.40x2.40x2.50–1No.			

LEGEND

- PROPOSED ROAD
- EXISTING ROAD
- PROPOSED COMPOUND WALL
- FENCE
- TREES
- PROPOSED DRAIN
- NALA

CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTHA LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT 25 MLD SEWAGE TREATMENT PLANT LAYOUT PLAN GENERAL ARRANGEMENT
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	S C A L E AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02



FOR TENDER PURPOSE ONLY

SEWAGE TREATMENT PLANT COMPONENT DETAILS FOR 50 MLD

MARKED	DESCRIPTION	DIMENSIONS (M)	MARKED	DESCRIPTION	DIMENSIONS (M)	MARKED	DESCRIPTION	DIMENSIONS (M)
1	INLET CHAMBER	3.40x3.40x2.90--1No.	5	RCC CHANNEL	5.25x0.85--1No.	14	CENTRATE SUMP	3.40x3.40x2.0--1No.
2	COARSE SCREEN CHANNEL (MECHANICAL)	13.00x2.50x1.00--1Nos.		GRIT CHAMBER	6.30x6.20x6.9LD--2Nos.	15	CENTRIFUGE HOUSE	10.00x5.00X4.00--1No.
	PROPOSED RAW SEWAGE PUMPING STATION			RCC CHANNEL	4.00x0.80--1No.	16	CHLORINATION ROOM	15.00x5.00x5.0--1Nos.
3	WET WELL	14.00x9.60--1No.	6	EQT TANK ANOXIC	40.00x40.00x5.00LD--1Nos.	17	AIR BLOWER ROOM,AERATION &MIXING	20.00x10.00x5.0--1No.
	PUMP HOUSE ABOVE WET WELL	10.54x8.00--1No.	7	SBR TANK	40.00x40.00x6.00LD--4Nos.	18	OZONE ROOM & AIR BLOWER ROOM FILTER	10.00x5.00x5.0--1No.
4	VALVE CHAMBER	10.00x5.00x2.50--1No.	8	TREATED SEWAGE TANK	11.00x11.00x3.00--1No.	19	ADMINISTRATION BUILDING (GF & FF)	15.00x10.00X4.00--
	PRELIMINARY TREATMENT UNITS		9	GLASS MEDIA FILTER AND ACTIVATED CARBON FILTER	60.00x20.00--1No.	20	TRANSFORMER YARD	11.00x15.00--1No.
5	INLET CHAMBER	2.20x2.20x2.20--1No.	10	CHLORINE CONTACT TANK	42.00x10.00X3.50--1No.	21	DG ROOM	10.00x8.00--1No.
	SCREEN CHAMBER (MECHANICAL)	15.00x3.00x1.00LD--1No.	11	SLUDGE SUMP	6.00x6.00X3.50LD--1Nos.	22	SECURITY ROOM	5.00x3.00--1No.
	SCREEN CHAMBER (MANUAL)	4.00x1.00x0.70LD--1No.	12	SLUDGE THICKNER	16.50mx4.00--1No.	23	ENGINEER OFFICE BUILDING	8.00x6.00--1No.
			13	THICKENED SUMP	1.60x1.60x2.50--1No.			

LEGEND

- PROPOSED ROAD
- EXISTING ROAD
- PROPOSED COMPOUND WALL
- FENCE
- TREES
- PROPOSED DRAIN
- NALA

CLIENT	BANGALORE DEVELOPMENT AUTHORITY Kumara Park West, T.Chowdaiah Road, Bengaluru-560 020, India. Phone - 080 -23442273 / 2344227
PROJECT	FORMATION OF Dr. K. SHIVARAMA KARANTH LAYOUT, BENGALURU
TITLE	PROPOSED SEWAGE TREATMENT PLANT 50 MLD SEWAGE TREATMENT PLANT LAYOUT PLAN GENERAL ARRANGEMENT
PROJECT CONSULTANT	SECON BENGALURU - 66
SHEET No. 1 OF 1	SCALE AS SHOWN
DRAWING No.	SECON/BDA/DSKL/STP/LP/02